

(PCT Article 36 and Rule 70)

Date of submission of the demand	Date of completion of this report
Name and mailing address of the IPEA/EP	Authorized officer
Facsimile No.	Telephone No.

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/EP2004/051882

## Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ This report is based on translations from the original language into the following language \_\_\_\_\_, which is the language of a translation furnished for the purposes of:
- ☐ international search (Rule 12.3 and 23.1(b))
- ☐ publication of the international application (Rule 12.4)
- ☐ international preliminary examination (Rule 55.2 and/or 55.3)
2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:
- ☐ the international application as originally filed/furnished
- ☒ the description:
- pages 1-7 \_\_\_\_\_ as originally filed/furnished
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☒ the claims:
- nos. 2-11 \_\_\_\_\_ as originally filed/furnished
- nos.\* \_\_\_\_\_ as amended (together with any statement) under Article 19
- nos.\* 1 \_\_\_\_\_ received by this Authority on 05.07.2005 with letter of 30.06.2005
- nos.\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☒ the drawings:
- sheets 1 \_\_\_\_\_ as originally filed/furnished
- sheets\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- sheets\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.
3. ☐ The amendments have resulted in the cancellation of:
- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, nos. \_\_\_\_\_
- ☐ the drawings, sheets/figs \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_
4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, nos. \_\_\_\_\_
- ☐ the drawings, sheets/figs \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

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Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1. Statement			
Novelty (N)	Claims	<u>1-11</u>	YES
	Claims		NO
Inventive step (IS)	Claims		YES
	Claims	<u>1-11</u>	NO
Industrial applicability (IA)	Claims	<u>1-11</u>	YES
	Claims		NO
2. Citations and explanations (Rule 70.7)			
1. Reference is made to the following documents:			
<p>D1: "TCP/IP Tutorial and Technical Overview", IBM REDBOOKS, [Online] August 2001 (2001-08), pages 180-197, XP002306248 USA, found on the Internet: URL: <a href="http://www.redbooks.ibm.com/redbooks/pdfs/gg243376.pdf">http://www.redbooks.ibm.com/redbooks/pdfs/gg243376.pdf</a> [found on 2004-11-15]</p> <p>D2: WO 97/01230 A (MCI COMMUNICATIONS CORP), 9 January 1997 (1997-01-09)</p> <p>D3: LEE K J ET AL: "DISTRIBUTED ROUTING USING TOPOLOGY DATABASE IN LARGE COMPUTER NETWORKS" NETWORKS: EVOLUTION OR REVOLUTION? NEW ORLEANS, MAR. 27 - 31, 1988, PROCEEDINGS OF THE ANNUAL JOINT CONFERENCE OF THE COMPUTER AND COMMUNICATIONS SOCIETIES. (INFOCOM), NEW YORK, IEEE, US, Vol. CONF. 7, 27 March 1988 (1988-03-27), pages 593-602, XP000043740, ISBN 0 8186-0833-1</p>			
2. Claim 1 fails to meet the requirements of PCT Article 33(1) because its subject matter does not involve an inventive step (PCT Article 33(3)). The reasons for this are as follows:			

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	<p>2.1 Document D1, which is considered to be the prior art closest to the subject matter of claim 1, discloses the following (the references in parentheses are to D1):</p> <p>A method for retiring inter-domain routes, in which:</p> <ul style="list-style-type: none"><li>- a router in a first autonomous system detects the failure of a link between two autonomous systems (paragraph 4.9.3.5);</li><li>- the router sends an update message to a second autonomous system to effect a cancellation of the routes that are no longer usable (paragraph 4.3.9.4);</li><li>- a router in the second autonomous system retires the routes in question (paragraph 4.3.9.4).</li></ul> <p>2.2 The subject matter of claim 1 differs from what is known from D1 in that the update message reports failed segments of inter-domain routes, instead of indicating which routes are to be cancelled. Thus the information communicated relates to segments that might form parts of routes which are no longer usable, rather than to whole routes.</p> <p>The advantage is a reduction in the amount of information that needs to be communicated. Instead of reporting whole routes, the messages specify only the segments which are actually affected in each case. This significantly reduces the amount of network traffic.</p> <p>2.3 With regard to this feature, document D3 describes the</p>

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	<p>same advantages as the present application. In view of the comments in paragraphs 1 and 3.2 of document D3 a person skilled in the art would consider it a routine procedure to combine all the features specified in claim 1. Hence the statement of the problem cannot be regarded as inventive (PCT Article 33(3)).</p> <p>3. Dependent claims 2 to 11 do not contain any features that meet the PCT requirements in respect of novelty or inventive step when combined with the features of any of the back-referenced claims (see documents D1, D2 and D3 and the passages cited in the international search report).</p>